

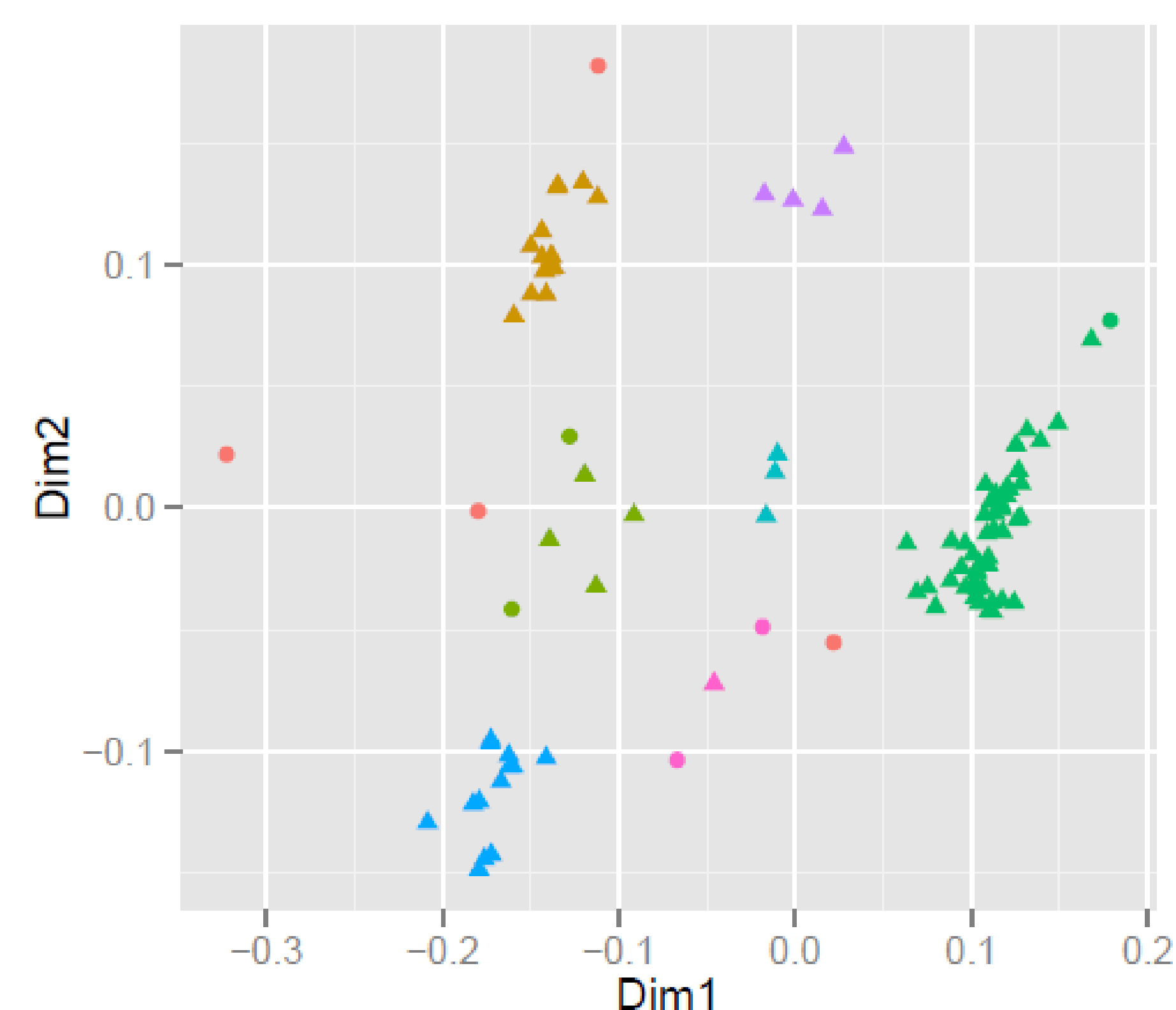
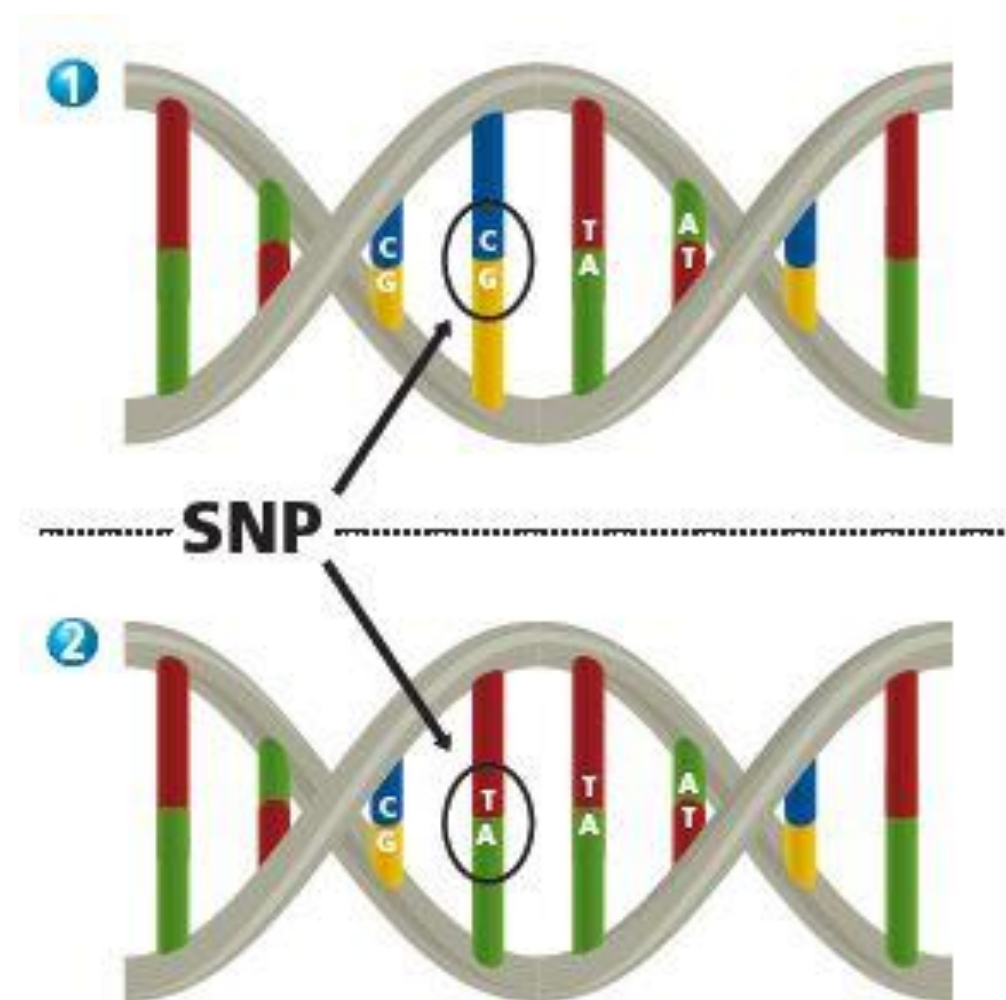
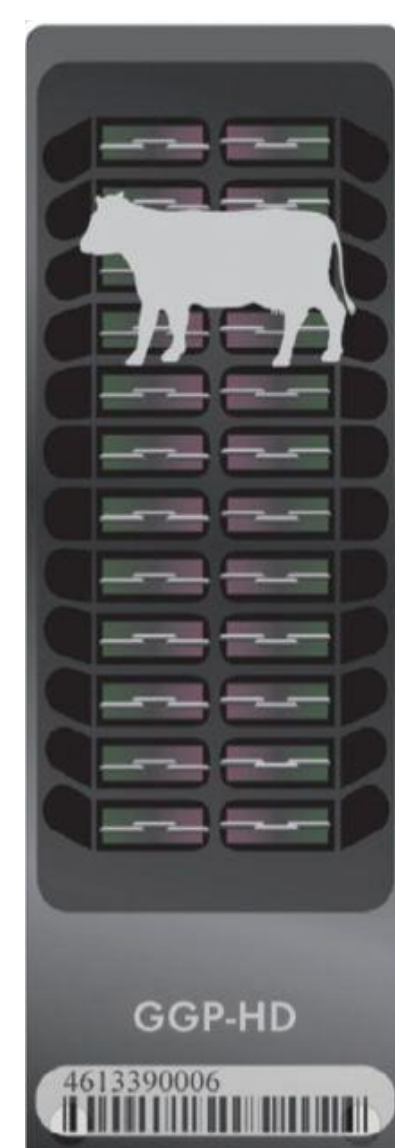
Senegal Dairy Genetics: Using advanced DNA approaches to determine breed composition

Karen Marshall, Stanly Tebug, Jarmo Juga, Miika Tapio and Ayao Missohou

The Senegal Dairy Genetics project is using advanced DNA approaches to determine the breed-type of dairy cattle in the absence of farmer recorded pedigree.



The breed or cross-breed type of the dairy animals may not be accurately known by their owner



DNA samples are taken by removing hair follicles

The animal's breed type is determined by examining the DNA for breed specific sequence changes called single nucleotide polymorphisms (SNP)#

Analysis output for Senegal Dairy Genetics animals with each point representing an animal and each colour a different breed-type

In this way, Senegal dairy farmers and other stakeholders in Senegal dairy are benefiting from the genomics revolution